

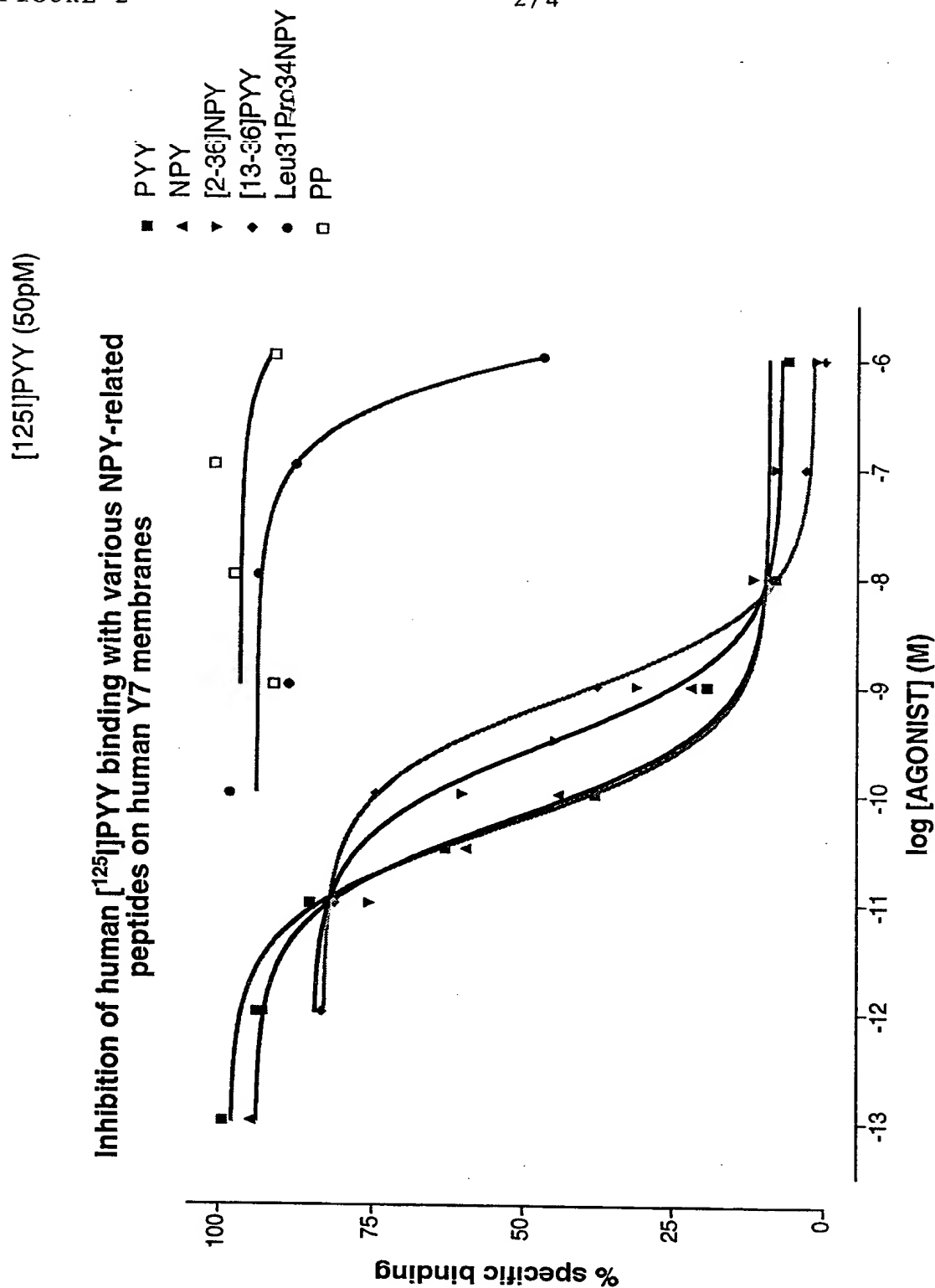
Figure 1 consists of 12 subplots, labeled (a) through (l), each showing a histogram of the number of non-zero elements in the rows of the matrix A_k for $k = 0, 1, \dots, 11$. The x-axis for all plots is 'Number of non-zero elements' with ticks at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. The y-axis is 'Frequency' with ticks at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. The histograms show the following approximate frequency distributions:

- (a) $k=0$: Peak at 4 (frequency 10).
- (b) $k=1$: Peak at 4 (frequency 10).
- (c) $k=2$: Peak at 4 (frequency 10).
- (d) $k=3$: Peak at 4 (frequency 10).
- (e) $k=4$: Peak at 4 (frequency 10).
- (f) $k=5$: Peak at 4 (frequency 10).
- (g) $k=6$: Peak at 4 (frequency 10).
- (h) $k=7$: Peak at 4 (frequency 10).
- (i) $k=8$: Peak at 4 (frequency 10).
- (j) $k=9$: Peak at 4 (frequency 10).
- (k) $k=10$: Peak at 4 (frequency 10).
- (l) $k=11$: Peak at 4 (frequency 10).

008021 2806160

FIGURE 2

2/4



3/4

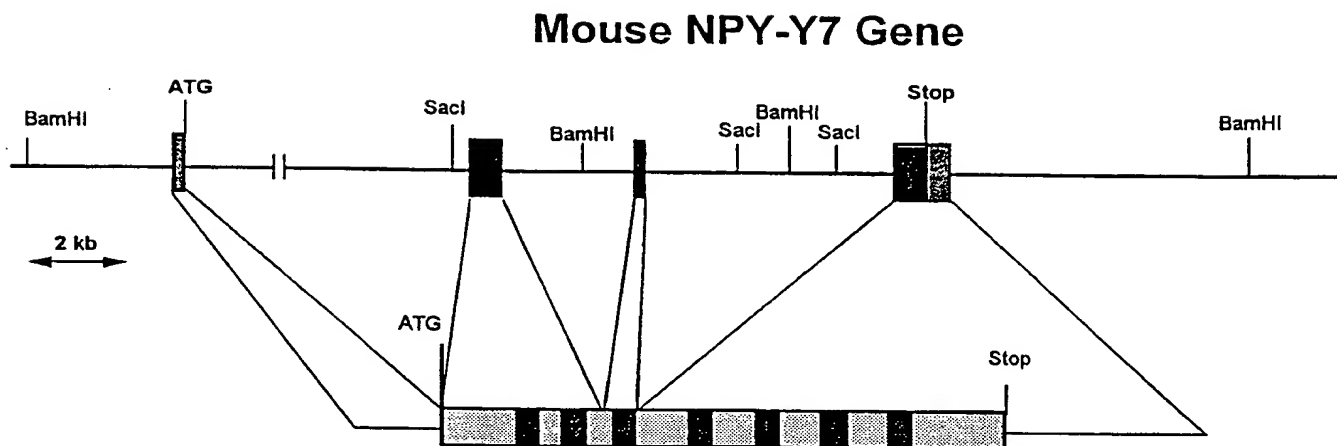


FIGURE 4

4/4

Human-Mouse NPY Y7 Receptor Alignment

hy7	1	M	F	I	M	N	E	K	W	D	T	N	S	S	E	N	W	H	P	I	W	N	V	N	D	T	K	H	H	L	Y	S	D	I	N	I	T	Y	V	38
mY7	1	M	S	T	M	S	E	K	W	D	S	N	S	S	E	S	W	N	H	I	W	S	G	N	D	T	Q	H	H	W	Y	S	D	I	N	I	T	Y	V	38
hy7	39	N	Y	Y	L	H	Q	P	Q	V	A	A	I	F	I	S	Y	F	L	I	F	F	L	C	M	M	G	N	T	V	V	C	F	I	V	M	R	N	76	
mY7	39	N	Y	Y	L	H	Q	P	Q	V	A	A	V	F	I	S	S	Y	L	L	I	F	V	L	C	M	V	G	N	T	V	V	C	F	I	V	I	R	N	76
hy7	77	K	H	M	H	T	V	T	N	L	F	I	L	N	L	A	I	S	D	L	L	V	G	I	F	C	M	P	I	T	L	L	D	N	I	I	A	G	W	114
mY7	77	R	H	M	H	T	V	T	N	F	L	I	L	N	L	A	I	S	D	L	L	V	G	I	F	C	M	P	I	T	L	L	D	N	I	I	A	G	W	114
hy7	115	P	F	G	N	T	M	C	K	I	S	G	L	V	Q	G	I	S	V	A	A	S	V	F	T	L	V	A	I	A	V	D	R	F	Q	C	V	V	Y	152
mY7	115	P	F	G	S	S	M	C	K	I	S	G	L	V	Q	G	I	S	V	A	A	S	V	F	T	L	V	A	I	A	V	D	R	F	R	C	V	V	Y	152
hy7	153	P	F	K	P	K	L	T	I	K	T	A	F	V	I	I	M	I	W	V	L	A	I	T	I	M	S	P	S	A	V	M	L	H	V	Q	E	E	190	
mY7	153	P	F	K	P	K	L	T	V	K	T	A	F	V	T	I	V	I	W	G	L	A	I	A	I	M	T	P	S	A	I	M	L	H	V	Q	E	E	190	
hy7	191	K	Y	Y	R	V	R	L	N	S	Q	N	K	T	S	P	V	Y	W	C	R	E	D	W	P	N	Q	E	M	R	K	I	Y	T	T	V	L	F	A	228
mY7	191	K	Y	Y	R	V	R	L	S	S	H	N	K	T	S	T	V	Y	W	C	R	E	D	W	P	R	H	E	M	R	R	I	Y	T	T	V	L	F	A	228
hy7	229	N	I	Y	L	A	P	L	S	L	I	V	I	M	Y	G	R	I	G	I	S	L	F	R	A	A	V	P	H	T	G	R	K	N	Q	E	Q	W	H	266
mY7	229	I	I	Y	L	A	P	L	S	L	I	V	I	M	Y	A	R	I	G	A	S	L	F	K	T	A	A	H	C	T	G	-	-	K	Q	R	P	V	Q	264
hy7	267	V	V	S	R	K	K	Q	K	I	I	K	M	L	L	I	V	A	L	L	F	I	L	S	W	L	P	L	W	T	L	M	M	L	S	D	Y	A	D	304
mY7	265	C	M	Y	Q	E	K	Q	K	V	I	K	M	L	L	T	V	A	L	L	F	I	L	S	W	L	P	L	W	T	L	M	M	L	S	D	Y	T	D	302
hy7	305	L	S	P	N	E	L	Q	I	I	N	I	Y	I	Y	P	F	A	H	W	L	A	F	G	N	S	S	V	N	P	I	I	Y	G	F	F	N	E	N	342
mY7	303	L	S	P	N	K	L	R	I	I	N	I	Y	I	Y	P	F	A	H	W	L	A	F	C	N	S	S	V	N	P	I	I	Y	G	F	F	N	E	N	340
hy7	343	F	R	R	G	F	Q	E	A	F	Q	L	Q	L	C	Q	K	R	A	K	P	M	E	A	Y	T	L	K	A	K	S	H	V	L	I	N	T	S	N	380
mY7	341	F	R	N	G	F	Q	D	A	F	Q	I	-	-	C	Q	K	K	A	K	P	Q	E	A	Y	S	L	R	A	K	R	N	I	V	I	N	T	S	G	376
hy7	381	Q	L	V	Q	E	S	T	F	Q	N	P	H	G	E	T	L	L	Y	R	K	S	A	E	N	P	N	R	N										408	
mY7	377	L	L	V	Q	E	P	V	S	Q	N	P	G	G	E	N	L	G	C	G	K	S	A	D	N	P	H	R	N	P									405	

09719088-120800